

WHAT IS CLAIMED IS:

1. A packaged medicinal product having extended shelf-life comprising:
  - (a) a medicinal preparation; and
  - (b) a plastic container having a fluorinated barrier layer on a surface of the body wall,  
5 wherein the body of the container is fill with the medicinal preparation.
2. A packaged medicinal product according to claim 1, wherein the medicinal preparation is a liquid.
- 10 3. A packaged medicinal product according to claim 2, wherein the medicinal preparation comprises a highly potent ingredient.
4. A packaged medicinal product according to claim 3, wherein the highly potent ingredient is a prostaglandin.  
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5. A packaged medicinal product according to claim 1, wherein the container is made of materials comprising LDPE, HDPE or PP.
6. A packaged medicinal product according to claim 5, wherein the container is a  
20 small volume bottle.
7. A packaged medicinal product according to claim 6, wherein the medicinal preparation comprises a prostaglandin.
- 25 8. A packaged medicinal product according to claim 7, which is for ophthalmic use.
9. A method of packaging a medicinal preparation, said method comprising the steps of:
  - (a) providing a plastic container having a fluorinated barrier layer on a surface of its  
30 body wall; and
  - (b) filling the container body with the medicinal preparation.
10. The method according to claim 9, wherein the medicinal preparation is a liquid.

11. The method according to claim 10, wherein the medicinal preparation comprises a highly potent ingredient.
- 5     12. The method according to claim 11, wherein the highly potent ingredient is a prostaglandin.
13. The method according to claim 9, wherein the container is made of materials comprising LDPE, PP, HDPE.
- 10     14. The method according to claim 13, wherein the container is a small volume bottle.
- 15     15. The method according to claim 14, wherein the medicinal preparation comprises a prostaglandin.
16. The method according to claim 15, wherein the medicinal preparation is for ophthalmic use.
- 20     17. A method of increasing the stability of a liquid medicinal preparation, said method comprising packaging the liquid medicinal preparation in a plastic container having a fluorinated barrier layer on a surface of the container body wall.
18. The method according to claim 17, wherein the plastic container is made of materials comprising LDPE, PP, HDPE.
- 25     19. The method according to claim 18, wherein the liquid medicinal preparation comprises a highly potent ingredient.
20. The method according to claim 19, wherein the highly potent ingredient is a prostaglandin.
- 30     21. The method according to claim 20, wherein the medicinal preparation is for ophthalmic use.

22. A method of preventing loss of an ingredient in a liquid medicinal preparation through the wall of a plastic container which contains the medicinal preparations, said method comprising packaging the medicinal preparation in the plastic container said  
5 container having has a fluorinated barrier layer on a surface of the container body wall.

23. The method according to claim 22, wherein the plastic container is made of materials comprising LDPE, PP, HDPE.

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24. The method according to claim 22, wherein the liquid medicinal preparation comprises a highly potent ingredient.

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25. The method according to claim 24, wherein the highly potent ingredient is a prostaglandin.

26. The method according to claim 25, wherein the medicinal preparation is for ophthalmic use.

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27. The method according to claim 22, wherein the container has a fluorinated barrier layer on the inside surface of the container body wall.

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28. A method of reducing transfer of an impurity into a liquid medicinal preparation upon storage, comprising packaging the liquid medicinal preparation in a plastic container said container having a fluorinated barrier layer on a surface of the container body wall.

29. The method according to claim 28, wherein the plastic container is made of materials comprising LDPE, PP, HDPE.

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30. The method according to claim 28, wherein the liquid medicinal preparation comprises a highly potent ingredient.

31. The method according to claim 30, wherein the highly potent ingredient is a prostaglandin.

32. The method according to claim 31, wherein the medicinal preparation is for  
5 ophthalmic use.

33. The method according to claim 28, wherein the container has a fluorinated barrier layer on the inside surface of the container body wall.